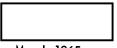
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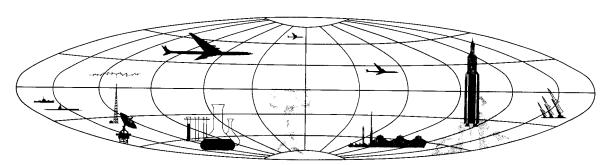
PHOTOGRAPHIC INTERPRETATION REPORT

# WEAPONS TEST CELLS IN THE USSR, CHINA, EGYPT, AND AUSTRIA





## NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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### WEAPONS TEST CELLS IN THE USSR, CHINA, EGYPT, AND AUSTRIA

#### INTRODUCTION

Eight unusual configurations, identified as weapons test cells, have been observed to date at 6 sites in the USSR, China, Egypt, and Austria. In the USSR the test cells were observed near Chapayevsk, Pavlograd, and Volsk; in China, near Pai-cheng; in Egypt, near Cairo; and in Austria, near Felixdorf (Figure 1). Five of the 6 sites have been associated directly or

Identification of the configurations as weapons test cells (formerly termed "baffle grids") is based on the following:
a) the fact that all of them are located in areas which also contain explosives/munitions plants (the test cells in China are actually a component of an extensive weapons/munitions test com-

#### FUNCTIONAL INTERPRETATION OF A WEAPONS TEST CELL

A weapons test cell is used to test model and actual munitions with respect to the distribution, range, and penetration of the fragments or contained missiles in various types of fragmentation or missile dispersion devices. The arcuate segments (Figure 2) of the weapons test cell are curved walls lined with, or consisting of, witness plates which record the distribution and/or penetration of missiles produced when the test device or munition is ex-

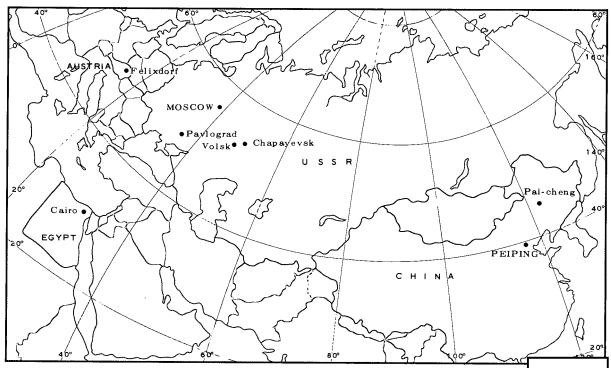


FIGURE 1. LOCATION MAP. Weapons test cells have been observed near the cities indicated in red.

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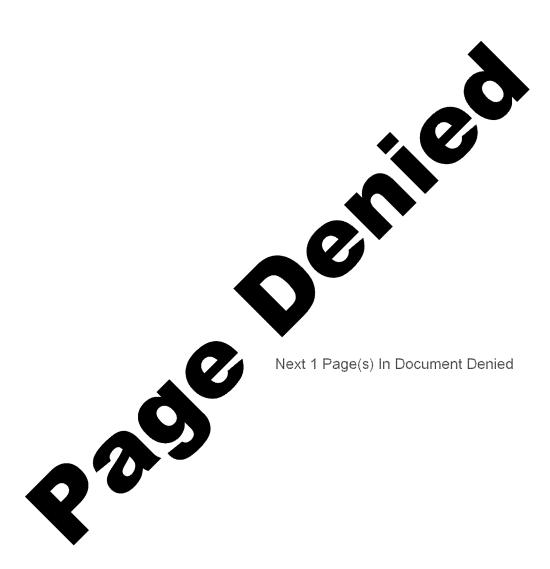
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ploded. The data can then be collected and	and Pavlograd, and 1 at the Central Chemical
analyzed for the purpose of producing more	Proving Ground, Shikhany, near Volsk. 2/
effective munitions as well as for determinating	The test facility near Chapayevsk (Figure 2) is visible on but had
criteria for their use. The design of the fa-	been dismantled by he facility was located
cilities, although basically simple, permits col-	2.5 nautical miles (nm) east-northeast of the
lection of a maximum quantity of data per lectionation and in a form readily subject to	city. Chapayevsk is the site of Chapayevsk
various forms of anlysis.	Explosives and Munitions Loading Combines
	309 and 15, Chapayevsk Chemical Plant 102, and
PHYSICAL CHARACTERISTICS OF OBSERVED WEAPONS TEST	
CELLS	A second test cell (Figure 3) first seen on
The physical characteristics of each weap-	photography, is located 6 nm
ons test cell observed in the USSR, China, and	east-southeast of Pavlograd, which is also the
Egypt are presented in Figures 2-7. A summary	site of the Pavlograd Explosives Plant. The
of physical characteristics is presented in Table	test cell is located beside the northern end of
l, which also includes the angles of arc in the	a long, narrow, cleared area that may be an
test cells.	artillery or tactical rocket test range.  A third facility (Figure 4), located
Weapons Test Cells in the USSR	A third facility (Figure 4), located approximately 10 nm west-northwest of Volsk,
	approximately to him west-northwest of voising
Three weapons test cells have been observed in the Soviet Union, 1 each near Chapayevsk	Shikhany. In addition to numerous
	ARCUATE SEGMENT
FIGURE 2. WEAPONS TEST CELL OBSERVED NEAR CHA	PAYEVSK, USSR, The test cell was dismantled by
-	2 -
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grids, test ranges, explosives	
storage facilities, and other components, the	
plant. The weapons test cell was first observed on photography of this facility differs from the others described in this report in that 3 of the 5 arcuate segments apparently have rectangular openings of various sizes which may represent doors and windows. Any or all	appear to be integral parts of the weapons/ munitions test facility at Pai-cheng (Tao-an), China. 5/ One test cell was present on photog-
of these openings would probably be covered by witness plates during a test.	1 wo of the cells consist of 6 segments; the other cell has 5 segments.
	A small, revetted control building is located between the pair of weapons test cells (Figure
	5). This building was present in At that time, a similar pair of test cells was located approximately 2 nm to the east-north- east; these test cells have since been moved or abandoned.
	DEST CELL NO 3
	NO 3
	No 3
FIGURE 6. WEADONG TEST CELL ALE	NO 3
FIGURE 6. WEAPONS TEST CELL NE	NO 3

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	which is diametrically opposed, whereas each of the test cells in the USSR and China consists of 5 or 6 segments.
Veapons Test Cell in Egypt  The weapons test cell in Egypt (Figure 7) s located within the secured area of Plant 81	
Camp Huckstep Munitions Plant) which is ap- proximately 11 nm northeast of Cairo. <u>6</u> /	Weapons Test Cell in Austria
photography. Low oblique photography showed some or all of the segments ying flat on the ground; the complete facility with the segments erected was visible on photography of The Egyptian facility differs from those in the USSR and China in that the consists of only 4 segments, each pair of	Ground photography provides an additional example of a weapons test cell located in Felixdorf, Austria. This facility was designed to test plastic hand grenades and the walls or witness plates are located at distances of 2, 3, and 5 meters from the point of detonation. Figure 8 is a view of part of the test cell.
	POSSIBLE RADOME.

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FIGURE 8. VIEW OF PART OF WEAPONS TEST CELL NEAR FELIXDORF, AUSTRIA

Table 1. Physical Characteristics of Weapons Test Cells in the USSR, China, and Egypt

Location	Number of Segments	Length of Radii* (ft)	Height of Walls (segments) (ft)	Angles of Arcs** (degrees)
Chapayevsk, USSR	6			65, 65
Pavlograd, USSR	5			55, 60 65,
Volsk, USSR	5			60, 60, 60, 60, 70
Pai-cheng, China (Test Cell No 1)	5			52, 60. 55.
Pai-cheng, China (Test Cell No 2)	6			55, 65, 55, 60, 60, 65
Pai-cheng, China (Test Cell No 3)	6			52, 76, 58, 70, 52, 59
Cairo, Egypt	4			85, 95, 85, 95

<sup>\*</sup>The radii were measured to the center of the arcs, beginning with the arc closest to center of the circle, then next closest, etc.

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<sup>\*\*</sup>The angle of arc is that angle formed by two radii extended to the edges of the arc. The angles were measured, in order, from the innermost arc to the outermost.

<sup>\*\*\*</sup>The heights given here are for the inner wall, the next 2 inner walls, and the outer wall, respectively.

PS OR CHARTS  15th RTS. US Air Target Chart, Series 200, Sheet 0165-16HL, 3d ed, Jan 63, scale 1:200,000 (SECRET)  SAC. US Air Target Chart, Series 200, Sheet 0254-22HL, 2d ed, Jul 63, scale 1:200,000 (SECRET)  3ad RTS. US Air Target Chart, Series 200, Sheet 0454-22HL, 3d ed, Aug 63, scale 1:200,000 (SECRET)  2nd RTS. US Air Target Chart, Series 200, Sheet 0454-12HL, 1st ed, May 62, scale 1:200,000 (SECRET)  ACIC. US Air Target Chart, Series 200, Sheet 0454-15HL, 2d ed, May 62, scale 1:200,000 (SECRET)  ACIC. US Air Target Chart, Series 200, Sheet 0254-15HL, 2d ed, May 62, scale 1:200,000 (SECRET)  CUMENTS  1. No author given. "Martin-Orlando Begins Operation of Unique Armament Research Facility," Missiles and Reckets, Vol 15, No 25, 21 Dec 64, pp. 32-34 (UNCLASSIFIED)  5. NPIC. R-170/64, Tent Facility, Tao-an, China, Mar 64 (TOP SECRET)  Comp Huckstep Munitions Plant (Plant 81), Caire, Egypt, Feb 65 (TOP SECRET)  QUIREMENT  IC PROJECT  12057/64		Approved For Release 2006/1 <del>1/14 : CIA-RDP78T04759A001</del> 000010019-6	
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